

B2 10. (Amended) A non-human mammalian embryo having a nucleus containing the DNA sequence of claim 1.

B3 12. (Amended) A non-human mammal in which the genome of the mammary glands of said mammal comprises a gene encoding a protein, said gene being under the transcriptional control of a mammalian milk protein promoter which does not naturally control the transcription of said gene, said genome comprising DNA enabling the secretion of said gene encoding said protein.

13. (Amended) The mammal of claim [10] 12, said mammal being a sheep, pig, goat, cow, or other mammals.

14. (Amended) The mammal of claim [10] 12 wherein said gene is expressed in greater amounts during lactation than during pregnancy.

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Please add the following new claims:

16. (New) The DNA sequence of claim 1, wherein said milk protein is a milk serum protein.

17. (New) The DNA sequence of claim 16, wherein said milk serum protein is α -lactalbumin.

B4 18. (New) The DNA sequence of claim 1, wherein said milk protein is a casein.

19. (New) A DNA sequence containing a gene encoding a protein, said gene being under the transcriptional control of a sequence upstream from the transcriptional start site of a mammalian milk protein which includes a milk protein promoter and which does not naturally control the transcription of said gene, said DNA sequence further comprising DNA enabling secretion of said protein.

20. (New) The DNA sequence of claim 19, wherein said secretion-enabling DNA comprises a secretion signal-encoding sequence interposed between said gene and said promoter.
21. (New) The DNA sequence of claim 19, wherein said milk protein is a milk serum protein.
22. (New) The DNA sequence of claim 21, wherein said milk serum protein is α -lactoalbumin.
23. (New) The DNA sequence of claim 19, wherein said milk protein is a casein.
24. (New) The DNA sequence of claim 20, wherein said signal encoding sequence is the signal encoding sequence naturally associated with said gene encoding said protein.
25. (New) The DNA sequence of claim 20, wherein said signal encoding sequence is the signal encoding sequence naturally associated with said mammalian milk protein promoter.
26. (New) The DNA sequence of claim 19, wherein said DNA sequence includes a transcriptional stop sequence.
27. (New) The DNA sequence of claim 26 wherein said stop sequence is derived from SV40 virus DNA.
28. (New) The DNA sequence of claim 27 wherein said stop sequence is contained in the polyadenylation sequence of SV40.
29. (New) The DNA sequence of claim 19 wherein said protein is human tissue plasminogen activator or hepatitis B surface antigen.